

CONTACT INFORMATION	Department of Mathematics Wellesley College 106 Central Street Wellesley, MA 02481-8203	Telephone: (781) 283-3164 Fax: (781) 283-3642 Email: bmunson@wellesley.edu Web: palmer.wellesley.edu/~munson
RESEARCH INTERESTS	Algebraic and differential topology, calculus of functors, spaces of embeddings, spaces of links, topological graph theory, mapping class group of a Riemann surface, knot theory	
APPOINTMENTS	<b>Visiting Lecturer</b> , Wellesley College	Fall 2008 to present
	<b>Lecturer</b> , Harvard University	Fall 2007 to Spring 2008
	<b>NSF Postdoctoral Research Fellow</b> , Stanford University	Fall 2004 to Spring 2007
	<b>Szegö Assistant Professor</b> , Stanford University	Fall 2003 to Fall 2006
	<b>NSF VIGRE Graduate Research Fellow</b> , Brown University	Fall 2001 to Spring 2003
	<b>NSF REU</b> , Williams College	Summer 1997
EDUCATION	<b>Brown University</b>	
	Ph. D., Mathematics, May 2003 Dissertation: <i>Embeddings in the 3/4 range</i> Advisor: Thomas G. Goodwillie	
	Sc. M., Mathematics, May 2001	
	<b>University of Oregon Clark Honors College</b>	
	B.A., Mathematics, June 1998, Phi Beta Kappa, summa cum laude, with honors Honors Thesis: <i>Cost-minimizing networks and polyhedral cones</i> Advisor: Hal Sadofsky	
PUBLICATIONS	<i>Homotopy theory of cubical diagrams</i> with Ismar Volić, in preparation (book).	
	<i>Calculus of functors for topological graph theory</i> with Ben Walter, in preparation.	
	<i>Derivatives of the identity and generalizations of Milnor's invariants</i> , submitted.	
	<i>A stable range description of the space of link maps</i> , with Tom Goodwillie, in preparation.	
	<i>Cosimplicial models for spaces of links</i> with Ismar Volić, submitted.	
	<i>Multivariable manifold calculus of functors</i> with Ismar Volić, submitted.	
	<i>A manifold calculus approach to link maps and the linking number</i> , <i>Algebraic &amp; Geometric Topology</i> <b>8</b> (2008), 2323-2353.	
	<i>Embeddings in the 3/4 range</i> , <i>Topology</i> <b>44</b> (2005), no. 6, 1133-1157.	
	<i>Cost-minimizing networks among immiscible fluids in <math>\mathbf{R}^2</math></i> , with David Futer, Andrei Gnepp, David McMath, Ting Ng, Sang-Hyoun Pakh, and Cara Yoder, <i>Pacific J. Math.</i> <b>196</b> (2000), no. 2, 395-414.	

## TEACHING

**Wellesley College**

Math 115: Calculus I	Fall 2008, Spring 2009
Math 116: Calculus II	Fall 2008, Fall 2009
Math 220: Probability and Statistics	Spring 2010
Math 305: Abstract Algebra	Spring 2010

**Harvard University**

Math Xb: Introduction to Functions and Calculus II	Spring 2008
Math 1b: Calculus, Series, and Differential Equations	Fall 2007
Math 283: Graduate Topics in Knot Theory	Fall 2007

**Stanford University**

Math 51: Multivariable Calculus and Linear Algebra	Winter 2004, Winter 2005
Math 103: Matrix Theory and its Applications	Spring 2004
Math 115: Functions of a Real Variable	Fall 2003
Math 147: Differential Topology	Spring 2006
Math 199: Independent Study (algebraic topology)	Fall 2005
Math 263A: Lie Groups and Lie Algebras	Winter 2005
Math 283: Topics in Topology: Calculus of Functors	Fall 2005

HONORS AND  
AWARDS

<b>NSF Postdoctoral Research Fellow</b> , Stanford University	2004-2006
<b>Oregon Six</b> , University of Oregon	1998
One of six Phi Beta Kappa inductees recognized for exemplary achievement.	
<b>Bowerman Scholarship</b> , University of Oregon	1997
Awarded each year to eight seniors for outstanding academic achievement.	
<b>Maurice Harold Hunter Leadership Scholarship</b> , University of Oregon	1996
Awarded annually to two junior men for notable contributions through achievement and good example toward the development of leadership among fellow students.	

SELECTED  
PRESENTATIONS

<b>Homotopy Theory Session, AMS Sectional Meeting</b>	Fall 2009
<b>Purdue University Topology Seminar</b>	Spring 2009
<b>MIT Topology Seminar</b>	Spring 2009
<b>Wellesley College Colloquium</b>	Spring 2008
<b>Johns Hopkins Topology Seminar</b>	Fall 2007
<b>Harvard University Topology/Gauge Theory Seminar</b>	Fall 2007
<b>Dartmouth College Topology/Geometry Seminar</b>	Summer 2007
<b>Purdue University Topology Seminar</b>	Spring 2007

CONFERENCES  
ATTENDED

<b>AMS Sectional Meeting</b> State College, PA	October 2009
<b>NSF/CBMS Conference on Algebraic Topology in Applied Mathematics</b> Cleveland, OH	August 2009

<b>Geometry and Topology</b>	
Münster, Germany	June 2009
<b>Georgia International Topology Conference</b>	
Athens, GA	May 2009
<b>Joint Mathematics Meetings</b>	
San Diego, CA	January 2008
<b>Complex Cobordism in Homotopy Theory: its impact and prospects</b>	
Baltimore, MD	March 2007
<b>Conference in honor of Frank Quinn's 60th birthday</b>	
Binghamton, NY	November 2006
<b>AIM workshop on moduli spaces of knots</b>	
Palo Alto, CA	January 2006
<b>Workshop on Localization and Calculus of Functors</b>	
BIRS, Banff, Alberta, Canada	April 2005
<b>Workshop on String Topology</b>	
Stanford, CA	Summer 2004
<b>Oberwolfach Arbeitsgemeinschaft on the Goodwillie Calculus of Functors</b>	
Oberwolfach, Germany	April 2004

SERVICE

**Reviewer, Mathematical Reviews**

**Editor, Journal of Homotopy and Related Structures**

**Referee, Mathematische Zeitschrift, Transactions of the AMS**

**Consultant, Boston College Case Studies in Mathematics Project**

During the summers of 2000 and 2001, I helped evaluate case studies for their use in teaching graduate students about teaching. See Solomon Friedberg, *Teaching Mathematics in Colleges and Universities: Case Studies for Today's Classroom: Faculty Edition*, AMS — MAA, 2001.

**Undergraduate Advisor**

I advised majors and undeclared freshmen and sophomores at Stanford University.

**Putnam Exam Seminar**

During the fall of 2008 and 2009, I ran a Putnam seminar at Wellesley college.

REFERENCES

Ralph L. Cohen, Stanford University  
Thomas G. Goodwillie, Brown University  
Dev P. Sinha, University of Oregon  
Charles Bu, Wellesley College (teaching)